
PARTIAL GAMMA-RAY CROSS SECTIONS FOR NEUTRON-INDUCED REACTIONS ON STABLE GERMANIUM ISOTOPES

C. A. McGrath¹, J. K. Jewell¹, R. O. Nelson², M. Devlin², N. Fotiades², J. A. Becker³,
P. E. Garrett³, W. Younes³

¹ *Idaho National Engineering Laboratory*

² *Los Alamos National Laboratory*

³ *Lawrence Livermore National Laboratory*

Using separated isotopes of ^{70}Ge , ^{72}Ge , and ^{74}Ge , we have measured gamma-ray partial cross-sections for neutron-induced reactions on each of these nuclei using the GEANIE detector array at the LANSCE/WNR spallation neutron source. The key to this measurement is removal of "false" cross section resulting from neutrons scattering off the HPGe detectors rather than the Ge target. The method of accounting for this will be presented, and interesting results will be given.